

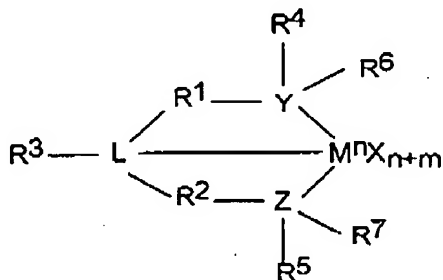
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 Response dated: April 8, 2008
 Reply to Office Action: January 3, 2008

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LISTING OF CLAIMS

1. (Currently Amended) A process for polymerizing olefin(s) comprising, combining said olefin(s), a catalyst composition having a first catalyst [system] component comprising a Group 15 containing [bidentate or] tridentate ligated Group 3 to 7 metal compound wherein the Group 3 to 7 metal atom is bound to at least one leaving group and to [at least two] three Group 15 atoms, and wherein [at least one of the at least] two of the Group 15 atoms [is bound to a group 15 or 16 atom] are each bound to the third Group 15 atom through a bridging group; and a second catalyst [system] component,
wherein said second catalyst component is a metallocene compound;
wherein said first catalyst component and said second catalyst component are added to a polymerization reactor in one of a solution, a suspension or an emulsion;
wherein the polymerization process is a continuous gas or slurry phase process, and
wherein the Group 15 containing tridentate ligated hafnium catalyst compound is represented by the formula:



Formula (I)

wherein M is a Group 3 to 7 metal;
each X is independently a leaving group;
n is the oxidation state of M;

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m is the formal charge of the Y, Z and L ligand;

L is a Group 15 element;

Y is a Group 15 element;

Z is a Group 15 element;

R¹ and R² are independently a linear, branched, or cyclic C₂ to C₂₀ alkyl group;

R³ is a hydrocarbon group, hydrogen, a halogen, or a heteroatom containing group;

R⁴ and R⁵ are independently an alkyl group, an aryl group, substituted aryl group, a cyclic alkyl group, a substituted cyclic alkyl group, a cyclic arylalkyl group, a substituted cyclic arylalkyl group or multiple ring system;

R¹ and R² may be interconnected to each other, and/or R⁴ and R⁵ may be interconnected to each other; and

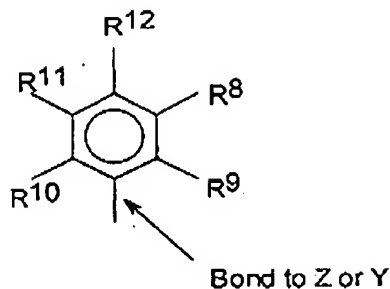
R⁶ and R⁷ are independently absent, or hydrogen, an alkyl group, halogen, heteroatom or a hydrocarbonyl group.

2. (Cancelled)
3. (Cancelled)
4. (Cancelled)
5. (Cancelled)
6. (Cancelled)
7. (Currently Amended) The process of [claim 6] Claim 1, wherein R⁴ and R⁵ are represented by the formula

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wherein

R⁸ to R¹² are each independently hydrogen, a C₁ to C₄₀ alkyl group, a halide, a heteroatom, a heteroatom containing group containing up to 40 carbon atoms, wherein any two R groups may form a cyclic group and/or a heterocyclic group, and wherein the cyclic groups may be aromatic.

8. (Currently Amended) The process of claim 7 wherein [R⁹, R¹⁰, and R¹²] R⁸ to R¹² are independently a methyl, ethyl, propyl or butyl group.
9. (Currently Amended) The process of claim 8 wherein [R⁹, R¹⁰, and R¹²] R⁸ to R¹² are methyl groups[, and R⁸ and R¹¹ are hydrogen].
10. (Currently Amended) The process of claim 9 wherein M is a Group 4 metal, L, Y, and Z are independently nitrogen, R¹ and R² are a C₂ to C₆ hydrocarbon radical, R³ is hydrogen, and R⁶ and R⁷ are absent.
11. (Cancelled)
12. (Currently Amended) The process of claim [2] 1 wherein the second catalyst [system] component comprises a [bulky ligand] metallocene compound of the general formula [L^DMQ₂(YZ)X_n]



wherein M is a Group [3 to 16 metal] 4, 5 or 6 metal atom,

[L^D is a bulky ligand that is bonded to M,]

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L^A and L^B are selected from the group consisting of cyclopentadienyl, tetrahydroindenyl, indenyl, fluorenyl, and substituted versions thereof, L^A and L^B are each bonded to M;

each Q is a [univalent anionic ligand bonded to M] monoanionic leaving group.

[Q₂(YZ) forms a uncharged polydentate ligand;]

[n is 1 or 2]

A is a divalent bridging group containing at least one Group 13 to Group 16 atom; and
n is 0, 1 or 2.

13.-14. (Cancelled)

15. (Currently Amended) The process of claim 12 wherein M is a Group 4 metal [and L^D is an indenyl group or a fluorenyl group].

16. (Cancelled)

17. (Currently Amended) The process of claim 1 wherein the catalyst [systems comprise] composition further comprises an activator.

18. (Cancelled)

19. (Original) The process of claim 1 wherein the olefin(s) are ethylene and one or more other olefin(s).

20. (Currently Amended) The process of claim [2 wherein the Group 15 containing bidentate or tridentate ligated Group 3 to 7 metal compound and the bulky ligand metallocene compound] 1 wherein said first catalyst component and said second catalyst component are present in a molar ratio of 1:99 to 99:1.

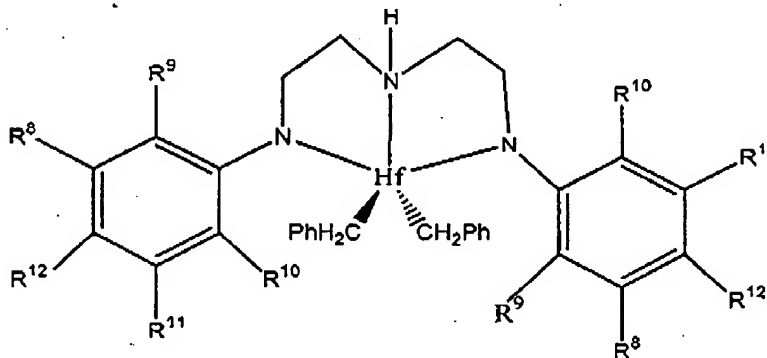
21. (Currently Amended) The process of claim [2 wherein the Group 15 containing bidentate or tridentate ligated Group 3 to 7 metal compound and the bulky ligand metallocene compound] 1 wherein said first catalyst

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component and said second catalyst component are present in a molar ratio of 20:80 to 80:20.

22.-48. (Cancelled)

49. (New) The process of Claim 1, wherein the Group 15 containing tridentate ligated Group 3 to 7 metal compound is represented by the formula:



wherein R⁸ to R¹² are each independently a methyl, ethyl, propyl, or butyl group.